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*Chemists in the Container Business*

I-CHEM RESEARCH

**CERTIFICATE OF ANALYSIS**

Analysis of Lot 9177063

July 20, 1989

Lot 9177063 has been cleaned to I-CHEM's Protocol A. This lot has been analyzed by Furnace Atomic Absorption, Flame Atomic Absorption, ICP-Atomic Emission Spectroscopy and ICP-Mass Spectroscopy. The following analytical results were obtained:

Element	Concentration (ug/L)	Element	Concentration (ug/L)
Hg	< 0.2	Zn	< 10
As	< 5	Cu	< 10
Se	< 2	Ni	< 20
Sb	< 5	Al	< 80
Ag	< 5	Mn	< 10
Ba	< 50	Cr	< 10
Be	< 1	B	< 100
Co	< 20	Fe	< 50
Pb	< 4	Cd	< 1
Tl	< 5	V	< 10
Sn	< 20		

The lot was also analyzed for extractables by GC/MS. The following compounds were analyzed for and either not found or found in concentrations less than 5 ug/L:

N-Nitroso-dimethylamine	4-Chloroaniline	4-Bromophenyl phenyl ether
Phenol	Hexachlorobutadiene	Hexachlorobenzene
Aniline	4-chloro-3-methylphenol	Pentachlorophenol
Bis(2-chloroethyl) ether	2-Methylnaphthalene	Phenanthrene
2-Chlorophenol	Hexachlorocyclopentadiene	Di-n-butyl Phthalate
1,3-Dichlorobenzene	2,4,6-Trichlorophenol	Fluoranthene
1,4-Dichlorobenzene	2,4,5-Trichlorophenol	Benzidine
1,2-Dichlorobenzene	2-Chloronaphthalene	Pyrene
Benzyl alcohol	2-Nitroaniline	Butyl benzyl Phthalate
Bis(2-chloro-isopropyl) ether	Dimethyl Phthalate	3,3'-Dichlorobenzidine
4-Methylphenol	Acenaphthalene	Benz(a)anthracene
N-Nitroso-n-dipropylamine	2,4-Dinitrophenol	Bis(2-ethylhexyl) Phthalate
Hexachloroethane	4-Nitrophenol	Chrysene
Nitrobenzene	Dibenzofuran	Di-n-octyl Phthalate
Isophorone	2,4-Dinitrotoluene	Benzo(b)fluoranthene
2-Nitrophenol	2,6-Dinitrotoluene	Benzo(k)fluoranthene
2,4-Dimethylphenol	Diethyl Phthalate	Benzo(a)pyrene
Bis(2-chloroethoxy) methane	4-Chlorophenyl phenyl ether	Indeno(1,2,3-cd)pyrene
2,4-Dichlorophenol	Fluorene	Dibenz(a,h)anthracene
1,2,4-Trichlorobenzene	4-Nitroaniline	Benzo(a,h)perylene
Naphthalene	4,6-Dinitro-2-methylphenol	N-Nitrosodiphenylamine

Contact our laboratory if additional information is required.

Please keep this certificate for your records and to facilitate any necessary correspondence regarding lot # 9177063

Anita Rudd, President